

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	3	"data synchronizing apparatus".ti.	US-PGPUB; USPAT	OR	OFF	2004/03/08 15:30
S2	4883	375/354-376.CCLS. AND @pd<"19991115"	US-PGPUB; USPAT	OR	OFF	2004/03/11 09:19
S3	4055	(375/354-376.CCLS. AND @pd<"19991115") AND (synchron\$)	US-PGPUB; USPAT	OR	OFF	2004/03/11 09:24
S4	469	((375/354-376.CCLS. AND @pd<"19991115") AND (synchron\$)) AND optical	US-PGPUB; USPAT	OR	OFF	2004/03/10 15:56
S5	15	"4835768".pn. "5081654".pn. "5113417".pn. "5132991".pn. "5140618".pn. "5313500".pn. "5400369"	US-PGPUB; USPAT	OR	OFF	2004/03/09 09:52
S6	251	((375/354-376.CCLS. AND @pd<"19991115") AND (synchron\$)) AND optical AND frame	US-PGPUB; USPAT	OR	OFF	2004/03/09 11:46
S7	326	(frame AND synch\$.ti.	US-PGPUB; USPAT	OR	OFF	2004/03/11 08:42
S8	36	(((frame AND synch\$.ti.) NOT (((375/354-376.CCLS. AND @pd<"19991115") AND (synchron\$)) AND optical AND frame)) NOT ("4835768".pn. "5081654".pn. "5113417".pn. "5132991".pn. "5140618".pn. "5313500".pn. "5400369")) AND optical	US-PGPUB; USPAT	OR	OFF	2004/03/09 11:47
S9	194	(((frame AND synch\$.ti.) NOT (((375/354-376.CCLS. AND @pd<"19991115") AND (synchron\$)) AND optical AND frame)) NOT ("4835768".pn. "5081654".pn. "5113417".pn. "5132991".pn. "5140618".pn. "5313500".pn. "5400369")) AND @pd<"19991115"	US-PGPUB; USPAT	OR	OFF	2004/03/09 11:48
S10	314	(((frame AND synch\$.ti.) NOT (((375/354-376.CCLS. AND @pd<"19991115") AND (synchron\$)) AND optical AND frame)) NOT ("4835768".pn. "5081654".pn. "5113417".pn. "5132991".pn. "5140618".pn. "5313500".pn. "5400369"))	US-PGPUB; USPAT	OR	OFF	2004/03/10 15:18

## EAST Search History

S11	316	((frame AND synch\$.ti.) NOT (((375/354-376.CCLS. AND @pd<"19991115") AND (synchro\$)) AND optical AND frame)	US-PGPUB; USPAT	OR	OFF	2004/03/11 08:32
S12	0	((frame AND synch\$.ti.) NOT (((375/354-376.CCLS. AND @pd<"19991115") AND (synchro\$)) AND optical AND frame)) AND "emb"	US-PGPUB; USPAT	OR	OFF	2004/03/10 15:55
S13	0	((375/354-376.CCLS. AND @pd<"19991115") AND (synchro\$)) AND optical AND "emb"	US-PGPUB; USPAT	OR	OFF	2004/03/10 15:56
S14	81	((frame AND synch\$.ti.) NOT (((375/354-376.CCLS. AND @pd<"19991115") AND (synchro\$)) AND optical AND frame) AND emb\$	US-PGPUB; USPAT	OR	OFF	2004/03/11 08:27
S15	1	((frame AND synch\$.ti.) NOT (((375/354-376.CCLS. AND @pd<"19991115") AND (synchro\$)) AND optical AND frame) AND (computer WITH readable WITH media)	US-PGPUB; USPAT	OR	OFF	2004/03/11 08:34
S16	192	(frame AND synch\$.ti. AND (synch\$ AND error)	US-PGPUB; USPAT	OR	OFF	2004/03/11 08:43
S17	130	(frame AND synch\$.ti. AND (synch\$ WITH error)	US-PGPUB; USPAT	OR	OFF	2004/03/11 08:44
S18	83	(frame AND synch\$.ti. AND (synch\$ WITH error) AND @pd<"19991115"	US-PGPUB; USPAT	OR	OFF	2004/03/11 11:17
S19	32	(frame AND synch\$.ti. AND (synch\$ WITH error) AND @pd<"19991115" AND (synch\$ WITH position)	US-PGPUB; USPAT	OR	OFF	2004/03/11 09:18
S20	157	375/354-376.CCLS. AND @pd<"19991115" AND (frame AND synch\$) AND (synch\$ WITH error) AND (synch\$ WITH position)	US-PGPUB; USPAT	OR	OFF	2004/03/11 09:20
S21	130	(375/354-376.CCLS. AND @pd<"19991115" AND (frame AND synch\$) AND (synch\$ WITH error) AND (synch\$ WITH position)) NOT ((frame AND synch\$.ti. AND (synch\$ WITH error) AND @pd<"19991115")	US-PGPUB; USPAT	OR	OFF	2004/03/11 09:20

## EAST Search History

S22	130	((375/354-376.CCLS. AND @pd<"19991115" AND (frame AND synch\$) AND (synch\$ WITH error) AND (synch\$ WITH position)) NOT ((frame AND synch\$.ti. AND (synch\$ WITH error) AND @pd<"19991115")) NOT ((frame AND synch\$.ti. AND (synch\$ WITH error) AND @pd<"19991115" AND (synch\$ WITH position))	US-PGPUB; USPAT	OR	OFF	2004/03/11 09:20
S23	531	(375/354-376.CCLS. AND @pd<"19991115") AND (synchron\$) AND errone\$	US-PGPUB; USPAT	OR	OFF	2004/03/11 09:24
S24	169	(375/354-376.CCLS. AND @pd<"19991115") AND (synchron\$) AND (errone\$ WITH synchr\$)	US-PGPUB; USPAT	OR	OFF	2004/03/11 11:05
S25	21	((375/354-376.CCLS. AND @pd<"19991115") AND (synchron\$) AND (errone\$ WITH synchr\$)) AND (CPU or software)	US-PGPUB; USPAT	OR	OFF	2004/03/11 11:05
S26	24	(frame AND synch\$.ti. AND (software) AND @pd<"19991115"	US-PGPUB; USPAT	OR	OFF	2004/03/11 11:17
S27	24	((frame AND synch\$.ti. AND (software) AND @pd<"19991115") NOT (((375/354-376.CCLS. AND @pd<"19991115") AND (synchron\$) AND (errone\$ WITH synchr\$)) AND (CPU or software))	US-PGPUB; USPAT	OR	OFF	2004/03/11 11:17
S28	3122	frame ADJ error	US-PGPUB; USPAT	OR	OFF	2004/10/20 10:53
S29	177	(frame ADJ error) AND "375"/\$. CCLS. AND @pd<"19991115"	US-PGPUB; USPAT	OR	OFF	2004/10/20 10:53
S30	370	(frame ADJ error) AND "375"/\$. CCLS. AND @ad<"19991115"	US-PGPUB; USPAT	OR	OFF	2004/10/20 10:54

## EAST Search History

S31	151	"4835768".pn. "5052025".pn. "5113417".pn. "5132991".pn. "5761242" "4835768".pn. "5081654".pn. "5113417".pn. "5132991".pn. "5140618".pn. "5313500".pn. "5400369" "3550082".pn. "3678200".pn. "4414676".pn. "4453260".pn. "4472811".pn. "4633486".pn. "4646328".pn. "4748623" "4002845".pn. "4414662".pn. "4541104".pn. "4596981".pn. "4651319".pn. "4674087".pn. "4674088".pn. "4680766".pn. "4744081" "4316284".pn. "4356566".pn. "4607378".pn. "4675722".pn. "4747116" "3573359".pn. "3602828".pn. "3789380".pn. "4106058".pn. "4109236".pn. "4141046".pn. "4275466".pn. "4281356".pn. "4313136".pn. "4338683".pn. "4353130".pn. "4357707".pn. "4425646".pn. "4620300" "3585507".pn. "4768192".pn. "5132991"	US-PGPUB; USPAT	OR	ON	2004/10/20 11:15
S32	140	("4835768".pn. "5052025".pn. "5113417".pn. "5132991".pn. "5761242" "4835768".pn. "5081654".pn. "5113417".pn. "5132991".pn. "5140618".pn. "5313500".pn. "5400369" "3550082".pn. "3678200".pn. "4414676".pn. "4453260".pn. "4472811".pn. "4633486".pn. "4646328".pn. "4748623" "4002845".pn. "4414662".pn. "4541104".pn. "4596981".pn. "4651319".pn. "4674087".pn. "4674088".pn. "4680766".pn. "4744081" "4316284".pn. "4356566".pn. "4607378".pn. "4675722".pn. "4747116" "3573359".pn. "3602828".pn. "3789380".pn. "4106058".pn. "4109236".pn. "4141046".pn. "4275466".pn. "4281356".pn. "4313136".pn. "4338683".pn. "4353130".pn. "4357707".pn. "4425646".pn. "4620300" "3585507".pn. "4768192".pn. "5132991" ) AND @ad<"19991115"	US-PGPUB; USPAT	OR	ON	2004/10/20 16:51

## EAST Search History

S33	1	"4747116".PN.	USPAT	OR	OFF	2004/10/20 15:59
S34	1	"4622666".PN.	USPAT	OR	OFF	2004/10/20 15:59
S35	1	"4596981".PN.	USPAT	OR	OFF	2004/10/20 15:59
S36	1	"4573171".PN.	USPAT	OR	OFF	2004/10/20 16:01
S37	1	"4282600".PN.	USPAT	OR	OFF	2004/10/20 16:05
S38	1	"4002845".PN.	USPAT	OR	OFF	2004/10/20 16:05
S39	1	"4002845".PN.	USPAT	OR	OFF	2004/10/20 16:08
S40	1	"4002845".PN.	USPAT	OR	OFF	2004/10/20 16:08
S41	1	"20030031267"	US-PGPUB; USPAT	OR	ON	2004/10/20 16:51
S43	1	("5809094").URPN.	USPAT	OR	ON	2006/07/14 12:09
S44	4	("4748623"   "5014272"   "5107495"   "5303270").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/14 12:14
S45	8	("4316284"   "4943985"   "5107495"   "5303270"   "5473612"   "5809094"   "6118825"   "6587527").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/14 12:34
S46	6	("4500992"   "4763324"   "4766602"   "4833674"   "4890304"   "5010559").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/14 12:40
S47	2	("5784420").URPN.	USPAT	OR	ON	2006/07/14 12:44
S48	16	("4393419"   "4532561"   "4620300"   "4695901"   "4725898"   "4733312"   "4757390"   "4774701"   "4879731"   "4908810"   "4908812"   "4947264"   "4974082"   "4977550"   "5062005"   "5144453").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/14 12:47
S49	2	"6865240"	US-PGPUB; USPAT	OR	ON	2006/07/18 13:31

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	5350	375/353-376.CCLS. AND @pd<"20001115"	US-PGPUB; USPAT	OR	OFF	2005/04/06 10:22
S2	1455	(375/353-376.CCLS. AND @pd<"20001115") AND synchronize	US-PGPUB; USPAT	OR	OFF	2004/01/06 10:48
S3	200	((375/353-376.CCLS. AND @pd<"20001115") AND synchronize) AND optical	US-PGPUB; USPAT	OR	OFF	2004/01/06 11:17
S4	18	((((375/353-376.CCLS. AND @pd<"20001115") AND synchronize) AND optical) AND (data WITH compare)	US-PGPUB; USPAT	OR	OFF	2004/01/06 11:17
S5	4412	(375/353-376.CCLS. AND @pd<"20001115") AND synchron\$	US-PGPUB; USPAT	OR	OFF	2004/01/06 11:27
S6	401	((375/353-376.CCLS. AND @pd<"20001115") AND optical) NOT (((375/353-376.CCLS. AND @pd<"20001115") AND synchronize) AND optical)	US-PGPUB; USPAT	OR	OFF	2004/01/06 11:27
S7	5350	375/353-376.CCLS. AND @pd<"20001115"	US-PGPUB; USPAT	OR	OFF	2004/01/09 09:18
S8	601	(375/353-376.CCLS. AND @pd<"20001115") AND optical	US-PGPUB; USPAT	OR	OFF	2004/01/09 09:20
S9	25	(375/353-376.CCLS. AND @pd<"20001115") AND "compare data"	US-PGPUB; USPAT	OR	OFF	2004/01/09 09:23
S10	1	"4835768".PN.	USPAT	OR	OFF	2004/01/09 09:42
S11	1	"5081654".PN.	USPAT	OR	OFF	2004/01/09 09:42
S12	1	"5113417".PN.	USPAT	OR	OFF	2004/01/09 09:42
S13	1	"5132991".PN.	USPAT	OR	OFF	2004/01/09 09:42
S14	1	"5140618".PN.	USPAT	OR	OFF	2004/01/09 09:42
S15	1	"5313500".PN.	USPAT	OR	OFF	2004/01/09 09:43
S16	1	"5712866".pn.	US-PGPUB; USPAT	OR	OFF	2004/01/09 15:37
S20	6300	375/353-376.CCLS. AND @ad<"20001115"	US-PGPUB; USPAT	OR	OFF	2005/04/06 10:22
S21	836	S20 AND optical	US-PGPUB; USPAT	OR	OFF	2005/04/06 10:22
S22	59	S20 AND (circular WITH data)	US-PGPUB; USPAT	OR	OFF	2005/04/06 10:22
S23	176	S20 AND (periodic WITH synchronization)	US-PGPUB; USPAT	OR	OFF	2005/04/06 10:23

## EAST Search History

S24	27	S23 AND S21	US-PGPUB; USPAT	OR	OFF	2005/04/06 10:23
S25	11	("4596025"   "4694453"   "4701907"   "4720827"   "4731878"   "4736393"   "4736462"   "4764980"   "4773065"   "4797589"   "4829511").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/06 10:24
S26	12	("4912706").URPN.	USPAT	OR	ON	2005/04/06 10:25
S27	9	("4393516"   "4756010"   "4807259"   "4841549"   "4847867"   "4868809"   "4873703"   "4961205"   "4964141").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/06 10:25
S28	6	("5042053").URPN.	USPAT	OR	ON	2005/04/06 10:26
S29	4	("4569041"   "4791652"   "4811340"   "4858232").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/06 10:26
S30	40	("5241543").URPN.	USPAT	OR	ON	2005/04/06 10:27
S31	3	("3676793"   "3893040"   "4716575").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/06 10:28
S32	16	("5459435").URPN.	USPAT	OR	ON	2005/04/06 10:29
S33	7	("3909541"   "4213011"   "4276642"   "4694473"   "4920535"   "5119373"   "5229998").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/06 10:29
S34	14	("5610911").URPN.	USPAT	OR	ON	2005/04/06 10:30
S35	9	("3654473"   "4287606"   "4295741"   "4754452"   "4984884"   "5115332"   "5267072"   "5280376"   "5471332").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/06 10:30
S36	4	("5673133").URPN.	USPAT	OR	ON	2005/04/06 10:32
S37	5	("5351231"   "5502711"   "5559983"   "5563854"   "Re33665").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/06 10:32
S38	6	("5737371").URPN.	USPAT	OR	ON	2005/04/06 10:33
S39	609	375/356.CCLS.	USPAT	OR	ON	2005/04/06 10:34
S40	140	375/366.CCLS.	USPAT	OR	ON	2005/04/06 10:34
S41	20	S40 AND optical	USPAT	OR	ON	2005/04/06 10:34
S42	652	375/356.CCLS.\	US-PGPUB; USPAT	OR	ON	2005/04/06 10:34
S43	652	375/356.CCLS.	US-PGPUB; USPAT	OR	ON	2005/04/06 10:34

## EAST Search History

S44	48	S43 AND incorrect	US-PGPUB; USPAT	OR	ON	2005/04/06 10:35
S45	652	375/356.CCLS.	US-PGPUB; USPAT	OR	ON	2005/04/06 10:35
S46	544	375/373.CCLS.	US-PGPUB; USPAT	OR	ON	2005/04/06 10:36
S47	879	375/368	US-PGPUB; USPAT	OR	ON	2005/04/06 10:36
S48	575	375/368.CCLS.	US-PGPUB; USPAT	OR	ON	2005/04/06 10:40
S49	84	S48 AND optical	US-PGPUB; USPAT	OR	ON	2005/04/06 10:36
S50	7	("3909541"   "4213011"   "4276642"   "4694473"   "4920535"   "5119373"   "5229998").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/06 10:40
S51	39	S48 AND ((wrong OR incorrect) WITH synch\$)	US-PGPUB; USPAT	OR	ON	2005/04/06 10:41
S52	4	("20030161349"   "4574377"   "5592518"   "6535566").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/06 11:01
S53	7	("4397020"   "4928274"   "4979170"   "5381425"   "5483539"   "5493282"   "5666370").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/06 11:05
S54	7	("4675886"   "4686690"   "5003560"   "5018140"   "5228065"   "5710774"   "5862143").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/06 11:18
S55	4	SHIMAWAKI.IN. AND KAZUHIRO. IN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/06 11:19
S56	23	SHIMAWAKI.IN. AND KAZUHIRO. IN.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/04/06 11:20
S57	664	375/368.CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/04/06 11:20
S58	6	S57 AND golay	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/04/06 11:20
S59	38	375/354-376.CCLS. AND "golay"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/04/06 11:21
S60	0	"09712844".ap.	US-PGPUB; USPAT	OR	ON	2005/05/03 16:09



## EAST Search History

S61	0	"09712844".an.	US-PGPUB; USPAT	OR	ON	2005/05/03 16:09
S62	7	("4675886"   "4686690"   "5003560"   "5018140"   "5228065"   "5710774"   "5862143").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/18 13:14
S63	6	("6104770").URPN.	USPAT	OR	ON	2006/07/18 13:14
S64	4	("20030161349"   "4574377"   "5592518"   "6535566").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/18 13:27
S65	1	("6865240").URPN.	USPAT	OR	ON	2006/07/18 13:29

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	25	SHIMAWAKI.in. AND KAZUHIRO.in.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/07/18 14:55